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	Application No.	Applicant(s)
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Notice of Allowability	09/831,346 Examiner	HUI, SIEW KOK Art Unit
-		2637
The MAILING DATE of this communication appearable communication appearable claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGORY of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to and MPEP 1308.	orrespondence address plication. If not included a will be mailed in due course. THIS
1. This communication is responsive to <u>amendment filed 6/20/05</u> .		
2. The allowed claim(s) is/are <u>1,3-9,14-16 and 18-42</u> .		•
3. ☑ The drawings filed on <u>11 May 2001</u> are accepted by the Examiner.		
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☑ Examiner's Amendn	te

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 3, in the equation in the next to last line of the claim, the symbol " \square " has been replaced with the summation symbol -- Σ --.

The above change has been made to include the summation symbol in the equation as shown in the original claims.

Allowable Subject Matter

- 2. Claims 1, 3-9, 14-16 and 18-42 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach a receiver having an array of sensors that processes received signals using a first adaptive filter that enhances a target signal, a second adaptive filter that suppresses an unwanted signal, processes the filtered signals in a frequency to domain to further suppress the unwanted signal, determines a direction of arrival of the target signal, and treats a signal of the received signals as an unwanted signal if the signal has not impinged on the array from within a selected angular range, as recited in claim 1.

The prior art of record also fails to teach a receiver having an array of sensors that processes received signals using a first adaptive filter that enhances a target signal, a second adaptive filter that suppresses an unwanted signal, processes the filtered signals in a frequency to

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domain to further suppress the unwanted signal, and determines a signal energy from the received signals and a noise energy from the signal energy, where the signal energy is estimated

according to the equation of claim 3.

The prior art of record further fails to teach a receiver having an array of sensors that processes received signals using a first adaptive filter that enhances a target signal, a second adaptive filter that suppresses an unwanted signal, processes the filtered signals in a frequency to domain to further suppress the unwanted signal, determines a signal energy from the received signals and a noise energy from the signal energy, where the noise energy is calculated according to the equation of claim 4.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David B. Lugo whose telephone number is 571-272-3043. The examiner can normally be reached on M-F; 9:30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Lugo 8/16/05

Wangnantun KHAITRAN PRIMARY EXAMINER